U.S. ARMY TANK AUTOMOTIVE RESEARCH, DEVELOPMENT AND ENGINEERING CENTER (TARDEC)

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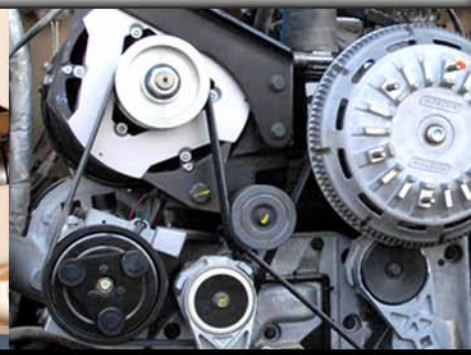
Ground Vehicle Robotics

Jim Parker
Associate Director, Ground Vehicle Robotics



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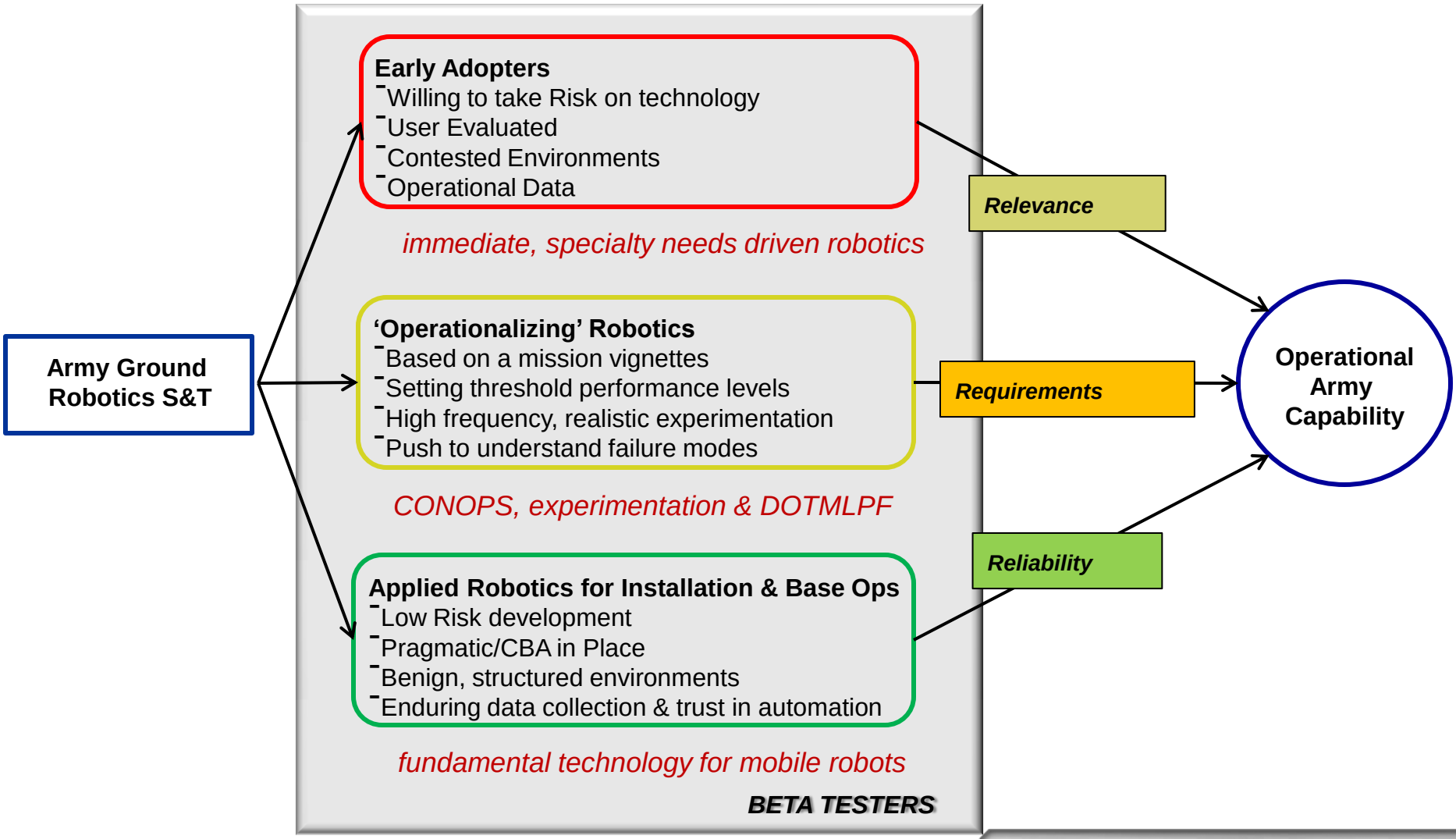
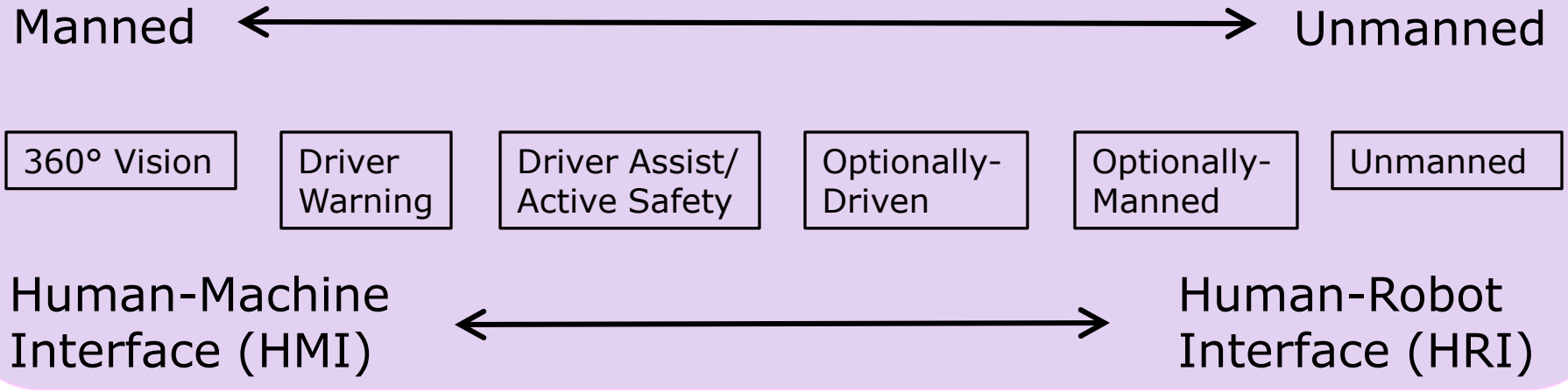
Strategy: Emphasis on Tech Push



Ground Vehicle Robotics Continuum



Enabled by:

1. Open Robotics Architecture

   A-kit + B-kit + C-kit

   (Autonomy + Platform By-wire + Mission Module/Payload)

2. Interoperability

Robotics Technology Opportunities

Manned

- Optionally-manned continuum
- Day/night, all-weather, all-terrain
- Open architecture
- Trust

Unmanned

- Day/night, all-weather, all-terrain
- Adaptive autonomy (in-, on-, off-the-loop)
- Long endurance, fast
- Open Architecture
- Multi-platform operation

Stretch Goal

- Amphibious